



6AS7-G

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LOW-MU TWIN POWER TRIODE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage. 6.3 ac or dc volts

Current. 2.5 amp

Direct Interelectrode Capacitances (Approx., each unit):^oGrid to plate. 10.5 μ fGrid to heater and cathode 6.8 μ fPlate to heater and cathode 2.3 μ fHeater to cathode. 11.0 μ fGrid of unit No.1 to grid of unit No.2 0.70 μ f

Plate of unit No.1 to

plate of unit No.2. 1.65 μ fCharacteristics, Class A₁ Amplifier (Each unit):

Plate-Supply Voltage 135 volts

Cathode-Bias Resistor[■] 250 ohms

Amplification Factor 2

Plate Resistance (Approx.) 280 ohms

Transconductance 7000 μ mhos

Plate Current. 125 ma

Mechanical:

Mounting Position. Any

Maximum Overall Length 5-5/16"

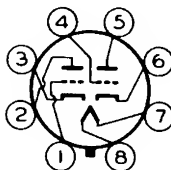
Maximum Seated Length. 4-3/4"

Maximum Diameter 2-1/16"

Bulb ST-16

Base Medium-Shell Octal 8-Pin (JETEC No. B8-11)

Basing Designation for BOTTOM VIEW 8BD

Pin 1 - Grid of
Unit No.2Pin 2 - Plate of
Unit No.2Pin 3 - Cathode of
Unit No.2Pin 4 - Grid of
Unit No.1Pin 5 - Plate of
Unit No.1Pin 6 - Cathode of
Unit No.1

Pin 7 - Heater

Pin 8 - Heater

DC AMPLIFIER

Values are for Each Unit

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE. 250 max. volts

PLATE CURRENT. 125 max. ma

PLATE DISSIPATION. 13 max. watts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. 300 max. volts

Heater positive with respect to cathode. 300 max. volts

^o without external shield.[■] Operation with fixed bias is not recommended.

← Indicates a change.

MAY 1, 1955

TUBE DIVISION

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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Maximum Circuit Values (For maximum rated conditions):

Grid-Circuit Resistance:

For cathode-bias operation 1.0 max. megohm
For fixed-bias operation Not recommended

BOOSTER SCANNING SERVICE

Values are for Each Unit

Maximum Ratings, Design-Center Values:

For operation in a 525-line, 30-frame system[□]

PEAK NEGATIVE-PULSE PLATE VOLTAGE[•] 1700 max. volts
DC PLATE CURRENT 125 max. ma
PLATE DISSIPATION. 13 max. watts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode . 300 max. volts
Heater positive with respect to cathode . 300 max. volts

Maximum Circuit Values (For maximum rated conditions):

Grid-Circuit Resistance:

For cathode-bias operation 1.0 max. megohm
For fixed-bias operation Not recommended

□ As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations", Federal Communications Commission.

• The duration of the voltage pulse must not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.

MAY 1, 1955

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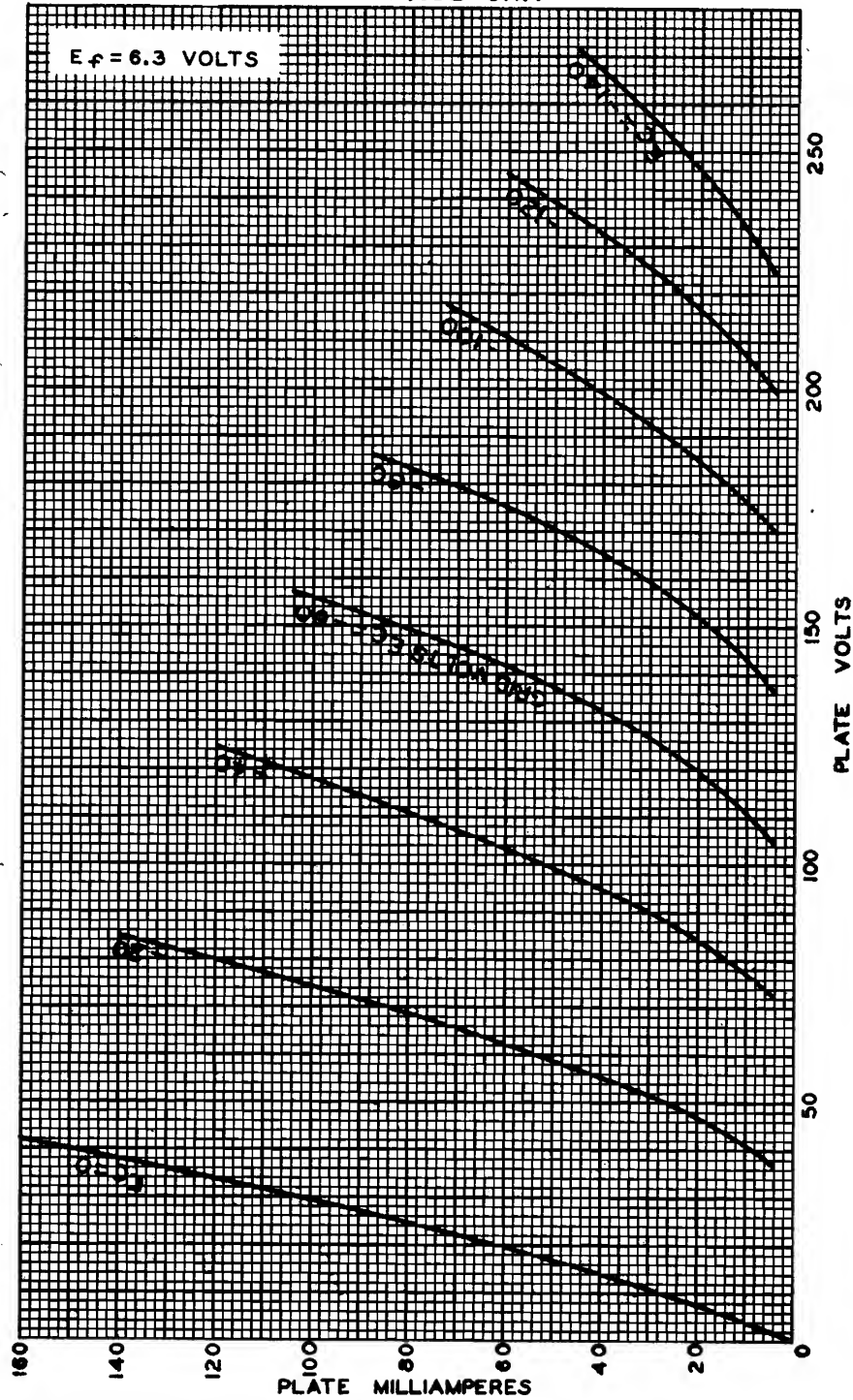
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AVERAGE PLATE CHARACTERISTICS
EACH TRIODE UNIT

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NOV. 6, 1945

RCA VICTOR DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6618